

**WHAT IS CLAIMED IS:**

1. A process for charcoal manufacture and activation,  
comprising the steps of:

- 5 a. obtaining raw material comprising hardwood chips;  
b. selectively sizing said raw material;  
c. blending said raw material on an approximately  
equal volumetric basis with selectively sized  
activated charcoal granules;  
10 d. introducing said blend into an electrical  
resistance furnace to form a bed of said blend;  
e. applying a voltage across said bed; and,  
f. controlling said voltage across said bed to  
produce a uniform bed temperature;

15 whereby a high quality uniform activated charcoal is  
produced thereby.

2. The method of Claim 1, wherein said voltage is  
approximately five hundred volts direct current (500  
20 VDC).

3. The method of Claim 1, wherein said raw material is sized less than approximately seven millimeters, but greater than approximately four millimeters.

5 4. The method of Claim 1, wherein said activated granules are sized less than approximately six millimeters, but greater than approximately three millimeters.

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